



» The communications
system for medium-sized
enterprises «

HiPath 3000

www.siemens.com/hipath


SIEMENS



» HiPath 3000 – the perfect telephone system for your enterprise «

With HiPath 3000, Siemens offers you a range of high-performance communications systems that fit perfectly to your communications requirements.





Quality of customer care is key to the success of your business. You want to be constantly available for your customers, and the phone is your core means of communication. Therefore you need an economical solution with sufficient flexibility to grow with your business.

A whole host of convenient features support all phone-based communications processes – at every workstation and in every working environment. HiPath 3000 systems enable the full performance spectrum of ISDN to be put to use – regardless of company size. Integrated call distribution is already prepared for statistical evaluation. Should an individual extension be temporarily unoccupied, both the team function and the integrated voicemail, with up to 24 mailboxes, ensure that no call is lost. And on the switchboard or in the secretarial office, where many communications processes run simultaneously, HiPath 3000 ensures trouble-free call management. All of which serves to make telephony not only more convenient, but also more efficient.

Fits perfectly

A huge array of solutions means that the full performance range of the HiPath 3000 communications systems can be individually tailored to suit your specific communications needs. The relevant applications must be installed only once in order to be available at every workstation throughout the entire company. In addition HiPath 3000 series telephone systems offer interfaces for the full usage spectrum, be it phone or telematic services or data connection. Branch offices, teleworkers and field operatives can also be easily connected to the communications system.

With HiPath Services, Siemens offers a comprehensive portfolio of solutions and services that increase the reliability, availability and security of networks and applications. Additional details can be found at: www.siemens.com/hipath-services.

Fit for the future

What's more, as HiPath 3000 communication systems already meet all the pre-conditions for IP-supported communications, you can be sure that you are best equipped for the future, should your company grow or your communications demands change. This means that telephony no longer requires its own network, but instead shares the IP-based data network infrastructure. Voice is integrated seamlessly into other communications processes, turning your PC into a phone. And PDAs, laptops, mobiles and IP phones are connected to business applications such as unified messaging or portal software – completely free of media breaks.

HiPath 3000 – from Siemens, of course

Through a dialog with the customer, Siemens Communications develops innovative communications solutions that set trends and support enterprises in reaching their goals. Perfectly adapted to the most diverse branches and different company sizes and structures.

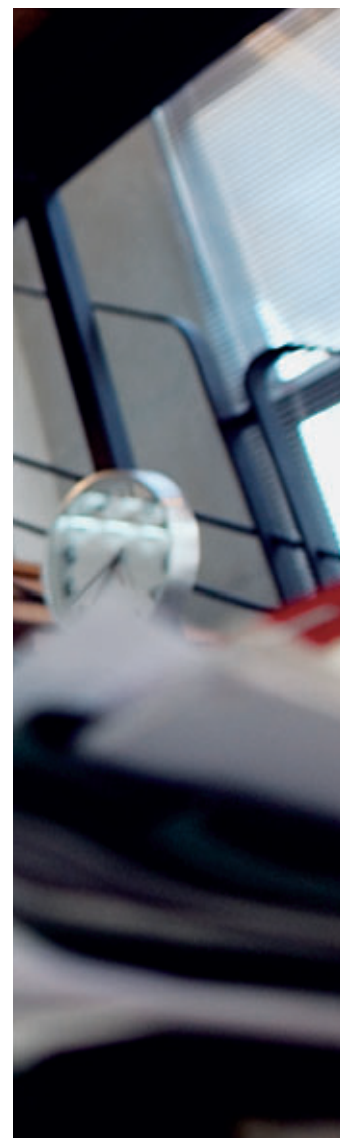
The Real Time IP System HiPath 3000 also offers all the advantages that have made Siemens the leading provider of communications solutions: especially high reliability and protection against failure, combined with the greatest level of flexibility and performance, along with fantastic compatibility and maximum scalability. Siemens is the only provider of complete solutions consisting of wireless infrastructure, user applications and devices. Only these end-to-end solutions offer a high return on investment, low total cost of ownership, and facilitate smooth implementation. And all this from a single source with the comprehensive portfolio of HiPath Services.

» HiPath 3000 – powerful, flexible and comfortable «

HiPath ComScendo – first-rate performance characteristics

HiPath ComScendo is the software suite that facilitates comprehensive communications features, not only for telephones but also for the HiPath 3000 Real Time IP System, whether you use IP, TDM phones or PC clients. HiPath ComScendo can be

adapted to best suit the varying communications needs throughout your company, equipping you, of course, with the appropriate software components for each situation.



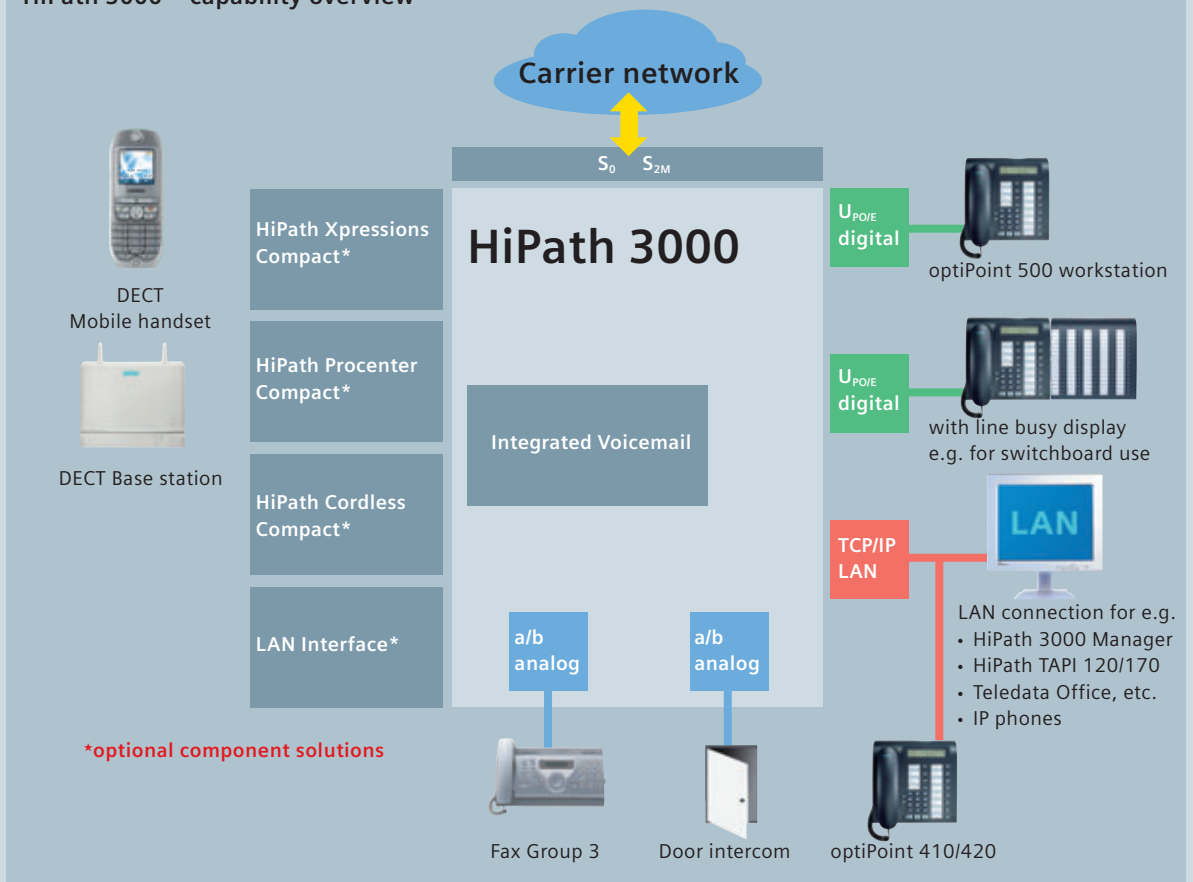


Comprehensive security – simple administration

HiPath Security. With HiPath Security, Siemens offers complete security systems from a single source: analysis and consulting, network and system security, secure access through SmartCard-based solutions and protection of your resources by means of identity and access management. Solution packages developed on the basis of typical requirements profiles can be adapted flexibly to specific needs. That cuts costs and provides you with the security that all solution components harmonize perfectly with one another.

HiPath MetaManagement. HiPath MetaManagement is the comprehensive, cross-system management solution for uniform administration of networks consisting of HiPath Real Time IP Systems, applications and standards-based third-party-provider products.

HiPath 3000 – capability overview



HiPath 3000 V6.0 – technical data

Network interfaces Euro-ISDN

- S₀ base connection with DSS1 protocol
 - system connection
 - point-to-multipoint connection
- S_{2M} primary multiplex connection with DSS1-P

Analog network access (HKZ)

Other interfaces

- V.24
 - for connecting service PC, call charge computer, call charge printer
- V.24 with CSTA Protocol
 - for connecting hotel applications

S₀FV, S_{2M}FV with CorNetNQ- and QSigQSig protocols

- Digital nailed connection

TCP/IP-LAN

• LAN-Interface Module (LIM/LIM S)

- Ethernet connection for administration via TCP/IP
- CTI functions
- Call cost capture and analysis (accounting)

HG 1500

- For connecting teleworkers
- Ethernet connection for IP phones
- Networking via IP
- DSL access with VPN and IPsec

Protocols:

- Voice over IP:
 - SIP after RFC
 - H.323
 - H.235

Quality of Service:

- Quality of Service Layer 2
- IEEE 802.1p
- Quality of Service Layer 3
- Type of Service (ToS/IP Precedence)
- DiffServ

Power supply

Systems are designed for network operation as standard. In the event of a power outage, uninterruptible power supply (UPS) offers optimum back-up.

Rated input voltage (AC):

88–264 V

Rated frequency:

50/60 Hz

Battery supply (DC):

-48 V

Environmental/operating conditions

Temperature:

+5 °C to +40 °C

Relative humidity:

5–85 %

Range

Between HiPath 3000 and system telephone: 500 m max.

Extension	HiPath 3300 (19" rack-mounted system)	HiPath 3350 (Wall-mounted system)	HiPath 3500 (19" rack-mounted system)	HiPath 3550 (Wall-mounted system)	HiPath 3800 (Floor-standing system/ 19" rack-mounted system)
Max. users analog (a/b)	20	36	44	96	384
Max. users digital (U _{POI/E})	24	24	48	72	384
Users IP	96	96	192	192	500
Max. users HiPath Cordless Office	16	16	32	64	250
Max. number of base stations – HiPath Cordless Office	3	3	7	16	64
V.24 interfaces	1	2	1	2	2
LAN Interface Protocol (LIM)	1	1	1	1	–
optiClient Attendant (PC switchboard)	3	3	7	16	64
optiPoint key modules	30	30	100	100	100
Integrated Voicemail (max. number)	24	24	24	24	–
Dimensions (H x B x T) in mm (2 U)	89 x 440 x 380	450 x 460 x 130	155 x 440 x 380 (3.5 U)	450 x 460 x 200	490 x 440 x 430
Weight	App. 6 kg	App. 6 kg	App. 8 kg	App. 8 kg	App. 34 kg (fully loaded)
Color	Bluegreen basic	Warm grey	Bluegreen basic	Warm grey	Steel blue/Arctic grey
Software version	V6.0	V6.0	V6.0	V6.0	V6.0

Selected system features:

- Absentee text messages
- Announcement/message facility
- Automatic redial (expanded)
- Authorization classes
- Call cost logging
- Call destination & call source display in the event of call diversion and call pick up
- Call forwarding – no answer after timeout; immediately if busy
- Call forwarding from the extension
- Call intercept
- Call number suppression
- Call pickup
- Call signaling
- Call transfer (internal/external)
- Callback facility from public network provider
- Callback on busy and no answer (automatic)
- Caller list
- Camp-on/call waiting tone
- Conference (internal/external)
- Consultation
- Display languages (can be specified individually)
- Do-not-disturb/"silent call"
- Door intercom and lock function
- External music source (optional)
- Group call
- Hunt group (linear/cyclic)
- Intercept position/switchboard tannoy
- Internal texts to feature handset
- Line keys
- Line seizure (automatic)
- Lock telephone (individual code)
- Manager/secretary function
- Music on hold with system announcement
- Night service/day service
- Parking
- Project code
- Recall
- Speed dialing (individual/central)
- Telephone book, central
- Telephone book, internal
- Text messages
- Toggling

HiPath ComScendo on a Button suite

The HiPath ComScendo on a Button suite is an innovative off-the-shelf package of features, which – in conjunction with optiPoint display phones, HiPath cordless phones or an optiClient – provides new kinds of features to increase workplace productivity. The functions can be set up on the end device to be called up either by separate keys or via a menu that is called up via a single application key.

EasyLookup. Simple access to the corporate directory (LDAP) via search parameters, output of results on the display and direct dialing of the displayed phone number.

EasySee. Output of information from the corporate directory as PhoneCard on the PC.

EasyMail. Opening of an e-mail window on the PC with the e-mail addresses of all contacts.

EasyShare. Starting Microsoft Netmeeting on the PCs of all known contacts (in the directory).

More options for your communications

SIP trunking offers companies many advantages – higher quality of service, more comprehensive functions and true convergence of voice and data in the telephone network. The open standard makes communications solutions more flexible, accelerates business processes, and provides new SIP-Q features, such as caller ID, call administration and call charge display.

Always accessible: integrated voicemail*

If no one happens to be at a particular extension, thanks to the integrated voicemail no calls are lost. Many convenient features optimize accessibility:

- Up to 24 individual mailboxes
- Up to 2 hours of recording capacity
- Adjustable recording length
- Selection from 2 personal greetings

And with the automatic attendant function "Auto Attendant," callers can be connected to another number if desired, for example when the phone is busy. Simple and convenient.

* Only available for the model versions HiPath 33X0 and HiPath 35X0

More security for your communication

HiPath 3000 uses security encryption to protect your communications against unauthorized access to confidential conversations. Based on international standards, both call details and signaling paths are encrypted. And without any additional software or hardware, because the encryption is done directly in the existing end devices and in the gateways used.

» HiPath 3000 – the perfect supplement with applications and end devices «



optiPoint clients and devices



optiPoint 500 entry

These digital system phones offer a wide range of convenient functions and features, as well as a modern, ergonomic design. The optiPoint 500 entry is precisely the right springboard into digital telephony.

Further models:

optiPoint 500 economy
optiPoint 500 basic
optiPoint 500 standard
optiPoint 500 advance



optiPoint 420 advance

Ideal for desk sharing and flexible office environments. Thanks to new, innovative technology for automatic transfer of key presets and labeling, users can access their own key presets from every optiPoint 420.

Further models:

optiPoint 420 economy
optiPoint 420 economy plus
optiPoint 420 standard



optiPoint 410 standard

An especially flexible IP phone with maximum adaptability, and exceptionally high voice quality thanks to G.722 broadband codec technology. Features can be updated simply via software downloads.

Further models:

optiPoint 410 entry
optiPoint 410 economy
optiPoint 410 economy plus
optiPoint 410 advance



optiPoint display module

The large touch screen enables convenient access to a range of telephone applications. Voice-activated dialing, speed dialing and WAP access offer a new dimension in IP telephony. Through the ability to search for numbers in personal or central directories, users can fulfill their work faster and more effectively.



optiPoint application module

Generous color display for IP telephones and digital system telephones with local telephone directory function. The large alphanumeric keypad is easy to use, and the integrated web browser provides easy access to Internet services and applications in the company network. In conjunction with the optiPoint 500, the optiPoint application module can also be used as an administration terminal for HiPath 3000.



Gigaset SL2 professional

The Gigaset SL2 professional combines performance with lightness: It weighs hardly more than 100 grams and has everything to make telephoning simple and convenient.



optiPocket

All the optiClient functions are also offered by optiPocket for PDAs. It is the ideal application for mobility solutions and offers access to all HiPath features via HiPath ComScendo.



optiPoint WL2 professional

This convenient WLAN telephone also makes the full range of features available in the company on a mobile basis. With up to 4 hours of calling time and up to 80 hours of standby time.



optiClient 130

Telephony via PC offers many advantages: no telephone taking up space on your desk; you can work anywhere – whether you are in the office or on the road – with the same familiar user interface.

optiPoint phone adapter for the connection of a further U_{POE} phone to an optiPoint phone.

optiPoint ISDN adapter for the connection of ISDN equipment with S₀ interfaces.

optiPoint analog adapter for the connection of analog equipment such as a fax machine, phone or modem.

optiPoint acoustic adapter for the connection of an external loudspeaker and microphone, and for running external equipment such as a “busy” display or a secondary alarm clock.

optiPoint recorder adapter for connecting a recorder interface for a second receiver.

Software solution Call-Bridge Suite for CTI support of optiPoint phones via USB/IP interface.

HiPath Applications

Whether CTI applications, cordless solutions, unified messaging or call center – a selection of many optional applications for HiPath 3000.

Would you like more mobility for your employees?

An integrated solution for wireless (Dect) telephones makes it possible to reach employees directly, anytime and anywhere in your company. No calls are lost, and inquiries can be answered faster. The satisfaction of your customers grows, and costly callbacks are avoided. In addition, a gapless radio connection using distributed base stations ensures maximum mobility.

Would you like to improve accessibility?

A modular and flexible unified messaging application provides a pure voice storage function, e-mail messaging, fax transmission and SMS – all the way to CTI functions. All services are combined in a mailbox and can be called up from anywhere. Even as an integrated voice storage system for call-up and distribution of voice messages in a user's own voice mailbox with an individual greeting.

Do you want to optimize your CRM?

A professional and economic call center software solution optimizes telephone customer service – from taking calls to complaint management. In addition to integrated uniform call distribution (UCD), a supervisor console provides real-time reporting and comprehensive statistics functions. The multimedia contact center integrates fax, e-mail, voice messages and Internet contacts.

Do you need a professional call switching system?

The optiPoint models can be expanded to include a busy lamp field, which provides a convenient overview of the status of all

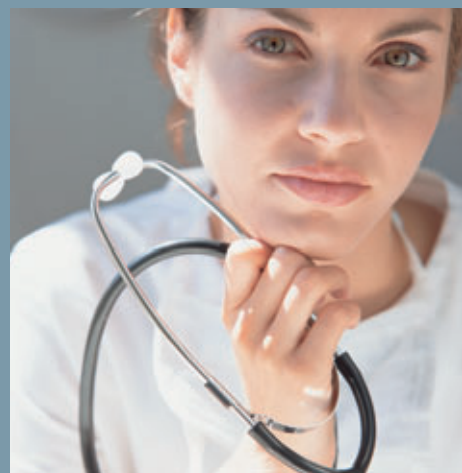
connections. For the optiClient, it is possible to emulate a convenient attendant console on the PC, which can be used to carry out all functions conveniently via keyboard and mouse.

Are you looking for a combination of PC and telephony?

By connecting a PC to the digital telephone system, applications that conform to TAPI can be integrated via CTI (Computer Telephony Integration). Then, all the telephone traffic can be managed professionally, for example, by call registration, call identification and entry in action lists. And connection to databases makes it possible to answer customer inquiries more competently.

Do you need cost transparency and IP accounting?

In addition to determining the costs of all communications services (telephone, fax, Internet), it is also possible to do an analysis by extension, trunk line or department. A LAN interface is used to transmit the communications data directly to a central server.



Your success is the focus of everything we do at **Siemens Communications**. We work together with you to develop powerful communication solutions that help you achieve your business goals. Take advantage of our proven experience, innovation power and implementation skills in all key areas of voice and data communication.

As a leading provider of communication solutions for mobile, fixed and enterprise networks worldwide, we constantly strive to make communication easier and more efficient. Thus we are setting the trends for a communication environment that fosters your success – today and in the future.

www.siemens.com/communications

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